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Agriculture Field Analysis using Data Analytics and Machine Learning

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The field of Agriculture plays a vital role in our India and all over the world. The modern and advanced technologies trying to help our farmer and the economy of our country more effectively so that our country can be grown in a much larger way. Data analytics through Python and many machine learning algorithms are used to work on the dataset for prediction purposes and improve the quality of our land in terms of soil, production, and quality. Many data mining approaches are used for analysis and mining purposes. Recent developments in the Information Technology field help to predict crop production based on the stored information. This information is processed with many data analytics and data mining techniques. This paper is mainly focused on analysing the farming concepts which can help to predict the estimation in terms of efficiency and cost. This can be achieved through a suitable data model which helps to achieve a high prediction rate.

Keywords: Data Analysis, Data Analytics, Data mining, Data Model, prediction, Machine Learning